

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use several sheets if necessary) (PTO-1449)	ATTY. DOCKET NO. 19226/835 (R-5285, R-5321, R-5323, and R-5356)	SERIAL NO. Division of 08/712,143
	APPLICANT Prasad et al.	
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09/26/93
09/10/93

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPRO- PRIATE
Kee	1	3,636,473	1/16/1972	Young			
	2	3,833,863	9/1/1974	Webster et al.			
	3	4,288,861	9/1/1981	Swainson et al.			
	4	4,987,021	1/27/1991	Kanno et al.			
	5	5,034,613	7/23/1991	Denk et al.			
	6	5,064,952	11/12/1991	Chang et al.			
	7	5,196,383	3/22/1993	Ito et al.			
	8	5,198,460	3/30/1993	Pandey et al.			
	9	5,214,036	5/25/1993	Allison et al.			
Kee	10	5,222,092	6/22/1993	Hench et al.			

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRAN- SLATION IF APPRO- PRIATE
Kee	11	WO 94/07142	3/31/1994	PCT			
	12	I-106,022	4/24/1989	Japan			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

Kee	13	Chemical Abstracts 111 (23): 501 (1989), abstract no. 221816h of Jpn. Kokai Tokkyo Koho JP 1,106,022 to Kurihara et al.
I	14	WPI Acc No: 89-162520/22 Abstract of JP 1106022
I	15	Denk et al., "Two-Photon Laser Scanning Fluorescence Microscopy," <u>Science</u> , 2:73-76 (1990)
I	16	Chemical Abstracts 120 (24): 815 (1994), abstract no. 310566e of Ashwell et al., "A Two-Legged Spacer Molecule for Alternate Layer LB Film Deposition with Optically Nonlinear Dyes", <u>Mater Res. Soc. Symp. Proc.</u> 247: 782-92 (1992)
Kee	17	Mukherjee, "Two-Photon Pumped Unconverted Lasing in Dye Doped Polymer Waveguides," <u>Appl. Phys. Lett.</u> , 62:3423-3425 (1993)

EXAMINER <i>Keeley O'Hara</i>	DATE CONSIDERED 6/19/00
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Xel	18	5,239,549	08/ 24 /1993	Tajima et al.			
	19	5,253,198	10/ 12 /1993	Birge et al.			
	20	5,254,638	10/ 19 /1993	Novak et al.			
	21	5,268,862	12/ 7 /1993	Rentzepis			
	22	5,289,407	2/ 22 /1994	Strickler et al.			
	23	5,314,905	5/ 24 /1994	Pandey et al.			
	24	5,325,324	6/ 28 /1994	Rentzepis et al.			
	25	5,354,858	10/ 11 /1994	Morgan et al.			
	26	5,380,510	1/ 16 /1995	Matsui et al.			
	27	5,412,043	5/ 2 /1995	Novak et al.			
Xel	28	5,420,081	5/ 30 /1995	Mattes et al.			

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Xel	29	Tutt et al., "A Review of Optical Limiting Mechanisms and Devices Using Organics, Fullerenes, Semiconductors and Other Materials," <u>Prog. Quant. Electr.</u> , 17:299-338 (1993)
	30	<u>Chemical Abstracts</u> 121 (14): 93 (1994), abstract no. 159364k of Moon et al., "Synthesis, Characterization and Properties of NLO Dye-Containing Polyurethane", <u>Mol Cryst. Liq. Cryst. Sci. Technol., Sect. A</u> 247: 91-7 (1994)
Xel	31	He et al., "Dye Film Leaky Waveguide Laser," <u>Optics Communications</u> , 111:82-85 (1994)
Xel	32	Tsien, "Fluorescence Imaging Creates a Window on the Cell," <u>Chemical and Engineering News</u> , 34-44 (July 18, 1994)
Xel	33	<u>Chemical Abstracts</u> 123: 955 (1995), abstract no. 241083t of Zhao et al., "Newly Synthesized Dyes and Their Polymer/Glass Composites for One- and Two-Photon Pumped Solid-State Cavity Lasing", <u>Chem. Mater.</u> 7: 1979-83 (1995)
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KOP	34	5,439,570	8/8/1995	Sessler et al.			
KOP	35	4,987,021	1/22/1991	Kanno et al.			
KOP	36	5,832,931	11/10/1998	Wachter et al.			
KOP	37	5,829,448	10/31/1998	Fisher et al.			

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KOP	38	Gvishi et al., "Probing the Microenvironment of Polymer-Impregnated Composite Glass Using Solvatochromic Dye," <u>Chem. Mater.</u> , 7:1703-1708 (1995)
	39	He et al., "Optical Limiting Effect in a Two-Photon Absorption Dye Doped Solid Matrix," <u>Appl. Phys. Lett.</u> , 67:2433-2435 (1995)
	40	He et al., "Two-Photon Absorption Based Optical Limiting and Stabilization in Organic Molecule-Doped Solid Materials," <u>Optics Communications</u> , 117:133-136 (1995)
	41	He et al., "Two-Photon-Pumped Cavity Lasing in a Dye-Solution-Filled Hollow-Fiber System," <u>Optics Letters</u> , 20:2393-2395 (1995)
	42	Nogués et al., "Sol-Gel Methods Can Yield Complex, Economical Optics," <u>Laser Focus World</u> , 90-93 (December 1995)
KOP	43	Zhao et al., "Newly Synthesized Dyes and Their Polymer/Glass Composites for One- and Two-Photon Pumped Solid-State Cavity Lasing," <u>Chemistry of Materials</u> , 7:1979-1983 (1995)
	44	Bhawalkar et al., "Efficient, Two-Photon Pumped Green Upconverted Cavity Lasing in a New Dye," <u>Optics Communications</u> , 124: 33-37 (1996)
KOP	45	Bhawalkar et al., "Two-Photon Laser Scanning Fluorescence Microscopy-From a Fluorophore and Specimen Perspective," <u>Bioimaging</u> , 4:168-178 (1996)

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KQ	46	Bhawalkar et al., "Three-Dimensional Laser Scanning Two-Photon Fluorescence Confocal Microscopy of Polymer Materials Using a New, Efficient Upconverting Fluorophore," <u>Scanning</u> , 18:562-566 (1996)
	47	He et al., "Properties of Two-Photon Pumped Cavity Lasing in Novel Dye Doped Solid Matrices," <u>IEEE Journal of Quantum Electronics</u> , 32: 749-755 (1996)
	48	He et al., "Two-Photon Pumped Cavity Lasing in Novel Dye Doped Bulk Matrix Rods," <u>Appl. Phys. Lett.</u> , 67:3703-3705 (1996)
KQ	49	He et al., "Upconversion Dye-Doped Polymer Fiber Laser," <u>Appl. Phys. Lett.</u> , 68: 3549-3551 (1996)
	50	Ashwell et al., "A Two-Legged Spacer Molecule for Alternate Layer LB Film Deposition with Optically Nonlinear Dyes", <u>Mater. Res. Soc. Symp. Proc.</u> , 247:782-92 (1992)
KQ	51	Moon et al., "Synthesis and Characterization and Properties of NLO Dye-Containing Polyurethane", <u>Mol Cryst. Liq. Cryst. Sci., Technol., Sect. A</u> , 247:91-7 (1994)

EXAMINER <i>Kelly Offner</i>	DATE CONSIDERED <i>6/19/00</i>
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